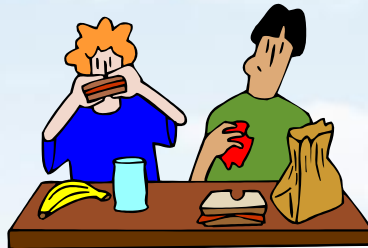


Maricopa County Air Quality Department Brown Bag



State Implementation Plans

Corky Martinkovic
Planning and Analysis Division Manager

May 23, 2013



Maricopa County
Air Quality Department



WALK MORE USE CFLS MORE CARPOOL MORE
BIKE MORE RAKE MORE TELECOMMUTE
MORE DRIVE HYBRIDS MORE CONSOLIDATE
ERRANDS MORE RIDE PUBLIC TRANSPORTATION
MORE USE ENERGY EFFICIENT APPLIANCES
MORE CARRY REUSABLE TOTE BAGS MORE
CONSIDER SOLAR MORE RUN COLD WATER
CYCLES MORE USE REUSABLE CONTAINERS
MORE CONSERVE ELECTRICITY MORE REDUCE
WOODBURNING MORE RECYCLE MORE USE
ELECTRIC LAWN AND GARDEN EQUIPMENT
MORE REFUEL AFTER DARK MORE RIDE
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CLEAN AIR
MAKE
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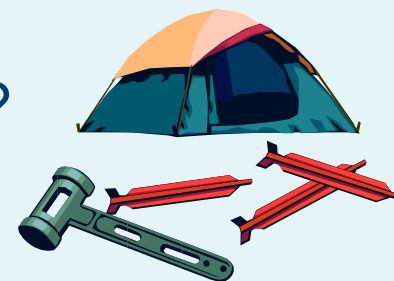
What Is a SIP?

- A State Implementation Plan tells a story about a state's air quality and provides a plan to clean dirty air or maintain air that is still clean or has become clean
- The story is required by the Clean Air Act (Section 110) and contains various required story elements
- The Who, What, When, Where, How and Why become essential parts of the SIP and all those who participate in the creation of the story become characters



What Is a SIP?

- The story tells the residents of the state, the regulated community and the EPA the following:
 - What should the air look like and what is it like now?
 - What and who made it look this way?
 - How do we know this and what will happen if we do nothing?
 - How do we fix it (the plan) and when do we know it is fixed?
 - Why care, and how do we keep it clean?



What Is a SIP?

- National Ambient Air Quality Standards
 - NAAQS: Carbon monoxide (CO), sulfur dioxide (SO₂), oxides of nitrogen (NO₂), particulate matter (PM₁₀, PM_{2.5}), ozone (O₃) and lead (Pb)
 - EPA updates NAAQS every five years; why? [Health]
 - **Designation of Nonattainment for a NAAQS**
 - Consequences of nonattainment or failure to obtain a re-designation = offsets, re-classifications, sanctions
 - SIP Revisions



What Is a SIP?

- What you will find in a SIP:
 - Background; Regulatory History
 - Monitoring (network)
 - Emissions Inventories (sources)
 - Scientific Analyses
 - Control Measures; Rules and Permit Conditions
 - Additional Analyses; Models
 - Enforcement; Contingency Measures
 - Public Process Verification



What Is a SIP?

- SIP Variations:
 - Infrastructure SIPs (Section 110(a)(2) of the CAA)
 - Specific Program SIPs (Ex: AgBMPs; gasoline; VEI)
 - Visibility/Regional Haze SIPs – national parks
 - “SIP Call” (EPA)
 - Maintenance Plans (re-designation to attainment)
 - Federal and Tribal Plans
 - Transportation Plans (RTP, TIP, Mobile Budgets)





- What SIPs involve Maricopa County?
 - Carbon Monoxide (CO) – maintenance
 - 1 Hour Ozone (O₃) – maintenance then revoked
 - 8 Hour Ozone (O₃) – flirting with attainment for 1997 standard; not making 2008 standard; 2013 ☹
 - PM₁₀ Long History, current Five Percent Plan
 - Wolf at the door: PM_{2.5}
 - County portions of Infrastructure SIPs
 - Exceptional Events; Transport (particulates, ozone)
 - MAG or ADEQ write SIPs; ADEQ submits to EPA



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Constant Vigilance

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SIP Reform



SIPs *usually* have 3 years to be developed.

EPA has 18 months to act.

Can approve or partially disapprove.



The Problems with SIPs

- SIP Backlog
- Litigation
- NAAQS Pile-up
- Guidance vs. Rule
- Enforcement Issues
- Regional Issues
- Funding
- Clean Air Act Legislation



Background; Regulatory History

Monitoring (network)

Emissions Inventories (sources)

Scientific Analyses

Control Measures; Rules and Permit Conditions

Additional Analyses; Models

Enforcement; Contingency Measures

Public Process Verification

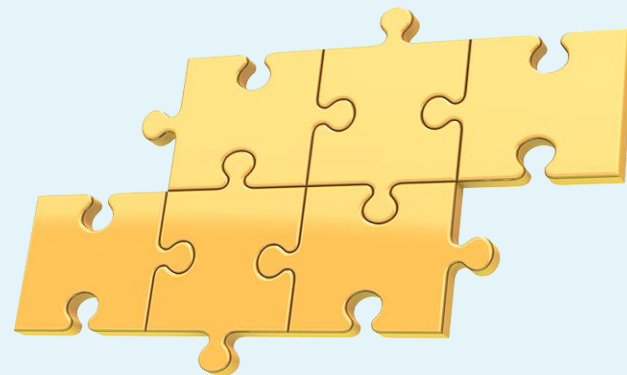
[Handout: EPA's SIP Reform Slides, NACAA 5/13 Conference]



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Handy SIP Links

- Tracking Arizona SIPs
 - http://www.maricopa.gov/aq/divisions/planning_analysis/state_implementation_plan.aspx
 - <http://www.azdeq.gov/environ/air/plan/index.html>
- Tracking SIPs at EPA
 - <http://www.epa.gov/region9/air/sips/>
 - <http://www.epa.gov/region9/air/actions/az.html>
- Tracking Enforcement at EPA
 - <http://www.epa.gov/enforcement/air/index.html>
- Tracking Litigation
 - <http://www.epa.gov/ogc/noi/html>
- Tracking Air Science and NAAQS
 - <http://www2.epa.gov/science-and-technology/air-science>
 - <http://www.epa.gov/ttn/amtic/casacinf.html>
 - <http://www.epa.gov/air/criteria.html>



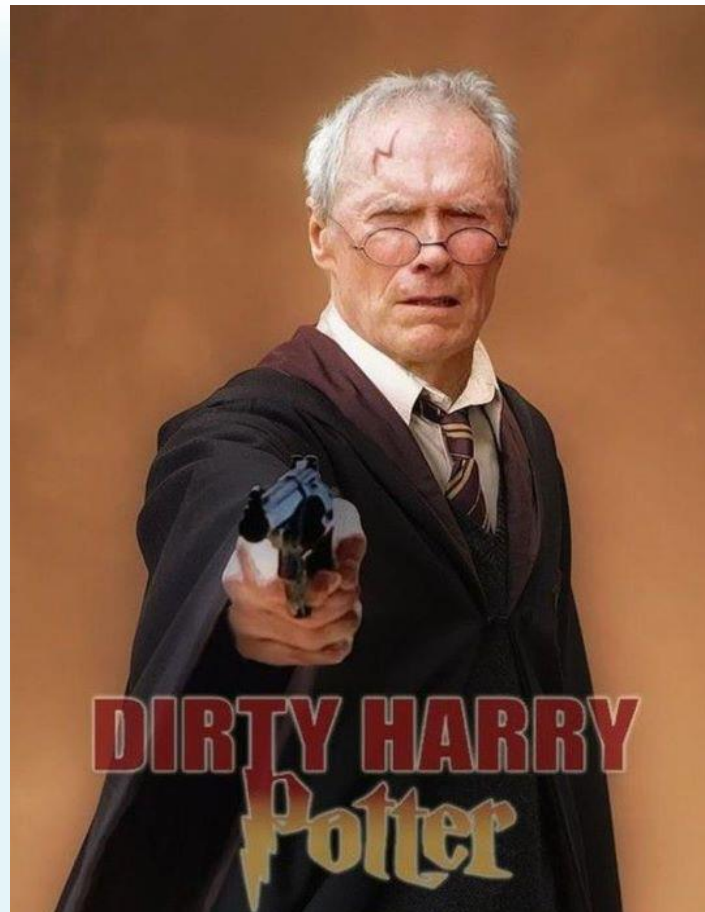
Contact Information

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What we do to dirty air...



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Air Quality Department



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Q & A

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